



EV 463 358 585 US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of : Kayvan Najarian et al.
Serial No : 10/812,726
Filed : March 30, 2004
For : Methods and Systems for Gene Expression Array Analysis
Examiner : Zhou, Shubo
Art Unit : 1631

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

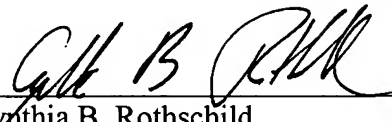
Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants submit herewith on Form PTO/SB/08A a listing of 75 documents known to the Applicants and/or their attorney. Applicants respectfully request consideration of the cited documents and making the same of record in the prosecution of the above-identified application. In so doing, Applicants do not waive any rights to appropriate action to establish patentability over any of the listed documents should they be applied as references against the claims of the present application, or to establish that such references are not prior art. Pursuant to the Notice in the Official Gazette of August 5, 2003, wherein the Patent Office waived the requirements of 37 C.F.R. § 1.98(a)(2)(i), Applicant has not enclosed copies of the U.S. patent references. Copies of foreign or international documents, and non-patent literature (documents 6-75), are enclosed, numbered and labeled for identification purposes.

This statement should not be construed as a representation that more material information does not exist or that a search of the relevant art has been made. It is respectfully requested that the references listed on the attached form PTO/SB/08A be expressly considered by the Examiner, made of record in the application, and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being submitted prior to the mailing of a first substantive Office Action in this application, and, therefore, no certification or fee is required (37 C.F.R. § 1.97b(3)). However, should any fees be due, the Commissioner is authorized to charge such fees to Deposit Account No. 16-1435. A duplicate of this sheet is attached for that purpose.

Respectfully submitted,

Date: October 9, 2004



Cynthia B. Rothschild
Reg. No. 47,040

KILPATRICK STOCKTON LLP
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WINLIB01:1098404.1
46872-293662



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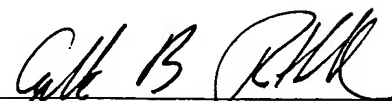
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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(Use as many sheets as necessary)

Complete if Known

Attorney Docket Number 46872-293662 (UNCC 02-031)

Sheet	1	of	8
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Examiner Signature		Date Considered	
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

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Application Number	10/812,726
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First Named Inventor	Kayvan Najarian et al.
Art Unit	1631
Examiner Name	Zhou, Shubo
Attorney Docket Number	46872-293662 (UNCC 02-031)

Sheet 2 of 8

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	6	BACK, A. D. et al. "A First Application of Independent Component Analysis to Extracting Structure From Stock Returns," Int. J. Neural Syst., 8:5, October, 1997	
	7	BASSETT, D. E. Jr. et al., "Gene Expression Informatics – It's All In Your Mine," Nat Genet. 1999 January 1999, 21 (1 Suppl):51-5	
	8	BLOHM, D. H. et al., "New Developments in Microarray Technology," Curr. Opin. Biotechnol., 12:41-47, 2001	
	9	BRAZMA, A. et al., "Gene Expression Data Analysis," FEBS Lett. 2000 Aug. 25, 480(1):17-24	
	10	CHEUNG, V. G. et al., "Making and Reading Microarrays," Nat Genet. 1999 Jan. 21 (1 Suppl):15-9	
	11	CHO, R. J., et al., "A Genome-Wide Transcriptional Analysis of the Mitotic Cell Cycle," Molecular Cell, 2:65-73, July 1998	
	12	DARVISH, A. et al., A Hierarchical System Identification Technique for Modeling and Analysis of Dynamic Pathways," Bioinformatics, May 2004	
	13	DARVISH, A. et al., "Discovering Dynamic Regulatory Pathway by Applying an Auto Regressive Model to Time Series DNA Microarray Data," IEEE Engineering in Medicine and Biology Society (IEEE/EMBS), Sept. 1-5, 2004	
	14	DEVAUX, F. et al., "Transcriptomes, Transcription Activators and Microarrays," FEBS Lett. 2001 Jun 8, 498(2-3):140-4	
	15	DUDOIT, S., "Statistical Methods and Software for the Analysis of DNA Microarray Experiments," Bioinformatics and Computational Biology Workshop, Foundation BBVA, Madrid, April 25-26, 2002	
	16	DUGGAN, D. J. et al., "Expression Profiling Using cDNA Microarrays," Nat Genet. 1999 Jan. 21 (1 Suppl):10-4	

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	17	GREENBERG, S. A., "DNA Microarray Gene Expression Analysis Technology and Its Application to Neurological Disorders," Neurology, 2001 Sept 11; 57(5):755-61	
	18	HACIA, J. G., "Resequencing and Mutational Analysis Using Oligonucleotide Microarrays," Nat Genet. 1999 Jan. 21(1 Suppl):42-7	
	19	HARKIN, D. P., "Uncovering Functionally Relevant Signaling Pathways Using Microarray-Based Expression Profiling," Oncologist. 2000; 5(6):501-7	
	20	HEGDE, P. et al., "A Concise Guide to cDNA Microarray Analysis - II," Biotechniques, 29(3), Sept. 2000,548-562	
	21	HOLLOWAY, A. J. et al., "Options Available - From Start to Finish - for Obtaining Expression Data by Microarray," Nat Genet. 32, December 2002,481-9 (1 Suppl)	
	22	HORI, G. et al., "Blind Gene Classification on ICA or Microarray Data," ICA 2001 meeting, San Diego, U. S. A., pp. 332-336, 2001	
	23	HUGHES, T. R. et al, "DNA Microarrays for Expression Profiling," Curr. Opin. Chem. Biol., Feb. 5:21-25, 2001	
	24	LEE, S. I. et al., "Application of Independent Component Analysis to Microarrays," Genome Biology, Vol. 4, No.R76, October 24, 2003	
	25	LIEBERMEISTER, W., "Linear Modes of Gene Expression Determined by Independent Component Analysis," Bioinformatics, 18:1, pp. 51-60, 2002	
	26	MAKEIG, S. et al., "Independent Component Analysis of Electroencephalographic Data," Proceedings of the Advances in Neural Information Processing Systems, Eds., Touretzky et al, MIT Press, pp. 145-151, 1996	
	27	NADON, R. et al., "Statistical Issues with Microarrays: Processing and Analysis," Trends Genet. 2002 May;18(5):265-71	
	28	NAJARIAN, K. et al., "Independent Component Analysis and Scoring Function Based on Protein Interactions," Proceedings of IEEE International Conference Intelligent Systems, June 2004	

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Sheet 4 of 8

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First Named Inventor	Kayvan Najarian et al.
Art Unit	1631
Examiner Name	Zhou, Shubo
Attorney Docket Number	46872-293662 (UNCC 02-031)

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	29	PAJUNEN, P. et al., "Non-Linear Blind Source Separation by Self-Organizing Maps," Proc. Int. Conf. On Neural Information Processing, Hong Kong, pp. 1207-1210, 1996	
	30	QUACKENBUSH, J., "Computational Analysis of Microarray Data," Nat. Rev. Genet. 2001 Jun;2(6):418-27	
	31	RAYCHAUDHURI, S. et al., "Basic Microarray Analysis: Grouping and Feature Reduction," Trends in Biotechnology, Vol. 19, No. 5, pp. 189-193, May 2001	
	32	SHERLOCK, G., "Analysis of Large-Scale Gene Expression Data," Briefings In Bioinform. 2001 Dec;2(4):350-62	
	33	SOUTHERN, E. et al., "Molecular Interactions on Microarrays," Nat Genet. 1999 Jan;21(1 Suppl):5-9	
	34	STONE, J. V. et al., "Spatiotemporal Independent Component Analysis of Event-Related fMRI Data Using Skewed Probability Density Functions," NeuroImage, 15:407-421, 2002	
	35	TORKKOLA, K., et al., "Self-Organizing Maps in Mining Gene Expression Data," Information Sciences, 139:79-96, 2001	
	36	TORONEN, P. et al. "Analysis of Gene Expression Data Using Self-Organizing Maps," FEBS Lett. 1999 May 21;451(2):142-6	
	37	VIGARIO, R. N., "Extraction of Ocular Artefacts from EEG Using Independent Component Analysis," Electroenceph. Clin. Neurophysiol., 103:395-404, 1997	
	38	WU, T. D., "Analysing Gene Expression Data from DNA Microarrays to Identify Candidate Genes," J Pathol. 2001 Sep;195(1):53-65	

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	39	YEUNG, K. Y. et al., "Principal Component Analysis for Clustering Gene Expression Data," Bioinformatics, 2001 Sep;17(9):763-74	
	40	ZIV Bar-Joseph et al., "Comparing the Continuous Representation of Time-Series Expression Profiles to Identify Differentially Expressed Genes," Proc. Natl. Acad. Sci., U. S. A., 100:10146-10151, 2003	
	41	"Microarray Explorer Tool for Data Mining Gene Expression Patterns," web page at http://maexplorer.sourceforge.net/ as available via the internet and printed on November 2, 2003	
	42	"My Microarray Software Comparison - Image Analysis Software," web page at http://ihome.cuhk.edu.hk/~b400559/arraysoft_image.html as available via the internet and printed on November 2, 2003	
	43	"My Microarray Software Comparison - Data Mining Software," web page at http://ihome.cuhk.edu.hk/~b400559/arraysoft_mining.html as available via the internet and printed on November 2, 2003	
	44	"My Microarray Software Comparison - Data Preprocessing Software," web page at http://ihome.cuhk.edu.hk/~b400559/arraysoft_preprocess.html as available via the internet and printed on November 2, 2003	
	45	"My Microarray Software Comparison - Statistics Software and Technical Programming Languages," web page at http://ihome.cuhk.edu.hk/~b400559/arraysoft_statistics.html as available via the internet and printed on November 2, 2003	
	46	"My Microarray Software Comparison," web page at http://ihome.cuhk.edu.hk/~b400559/arraysoft.html as available via the internet and printed on November 2, 2003	
	47	"My Microarray Software Comparison - Data Mining Software (Turnkey/Enterprise System)," web page at http://ihome.cuhk.edu.hk/~b400559/arraysoft_mining_turnkey.html as available via the internet and printed on November 2, 2003	

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	50	"My Microarray Software Comparison – Network/pathway Reconstruction and Analysis Software," web page at http://ihome.cuhk.edu.hk/~b400559/arraysoft_pathway.html as available via the internet and printed on November 2, 2003	
	51	"My Microarray Software Comparison – R Packages for Microarray Analysis," web page at http://ihome.cuhk.edu.hk/~b400559/arraysoft_rpackages.html as available via the internet and printed on November 2, 2003	
	52	Affymetrix web page at http://www.biospace.com/company_profile.cfm?CompanyID=1271 as available via the internet and printed on February 23, 2004	
	53	An IMS Mini-Meeting on Imaging, Classification, and Clustering, Department of Statistics, University of Florida, January 11-12, 2002	
	54	Bioconductor web page at http://www.bioconductor.org/top.html as available via the internet and printed on November 2, 2003	
	55	BioSieve Products - Microarray Data Analysis Software at http://www.biosieve.com/product.html as available via the internet and printed on November 2, 2003	

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	56	Cluster Analysis on Microarray Data at web page http://www.cs.bufo.edu/~djiang3/cluster.html as available via the internet and printed on November 10, 2003	
	57	Clustering Software web page at http://genetics.stanford.edu/~sherlock/cluster.html as available via the internet and printed on November 2, 2003	
	58	Cytoscape web page at http://www.cytoscape.org/ as available via the internet and printed on November 2, 2003	
	59	Engene Gene-Expression Data Processing and Exploratory Data Analysis web page at http://www.engene.cnb.uam.es/ as available via the internet and printed on November 2, 2003	
	60	Expression Profiler web page at http://ep.ebi.ac.uk/EP/ as available via the internet and printed on November 2, 2003	
	61	FAST-ICA: HUT - CIS web page at http://www.cis.hut.fi/projects/ica/fastica/ as available via the internet and printed on February 16, 2004	
	62	Gene Expression Pattern Analysis Suite (GEPAS) at http://gepas.bioinfo.cnio.es/tools.html as available via the internet and printed on November 2, 2003	
	63	Gene Network Sciences, Simulating Life for Drug Discovery web page at http://www.gnsbiotech.com/biomine.shtml as available via the internet and printed on November 2, 2003	
	64	Gene Network Sciences, BioMine™ 1.0, web page at http://www.gnsbiotech.com/biomine.shtml as available via the internet and printed on November 2, 2003	
	65	GeneMaths: GenExplore - High Throughput Analysis of Gene Expression Data at http://www.applied-maths.com/ge/ge_fr2.htm as available via the internet and printed on November 2, 2003	

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Application Number	10/812,726
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First Named Inventor	Kayvan Najarian et al.
Art Unit	1631
Examiner Name	Zhou, Shubo
Attorney Docket Number	46872-293662 (UNCC 02-031)

Sheet 8 of 8

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	66	Genesis Description at http://genome.tugraz.at/Software/Genesis/Description.html as available via the internet and printed on November 2, 2003	
	67	Genotypic Technology: Genowizard -- Microarray Data Analysis System web page at http://www.genotypictech.com/genowizard.htm as available via the internet and printed on November 2, 2003	
	68	HumanaNow, "Statistical Issues in cDNA Microarray Data Analysis," web page at http://biomed.humanapress.com/ChapterDetail.pasp?isbn=1-59259-364-X&ccode=1-5925 as available via the internet and printed on November 2, 2003	
	69	IFMBE News: September 2002 web page at http://ifmbe-news.iee.org/ifmbe-news/sept2002/bucolo.html as available via the internet and printed on November 10, 2003	
	70	MPI Swarm Description http://genome.tugraz.at/Software/PathwayEditor/Description.html as available via the internet and printed on November 2, 2003	
	71	Partek Pattern Recognition Software web page at http://www.partek.com/html/products/products.html as available via the internet and printed on November 2, 2003	
	72	Rosetta Features web page at http://rosetta.lcb.uu.se/general/features.html as available via the internet and printed on November 2, 2003	
	73	SAS, web page at http://www.sas.com/contact/intro.html as available via the internet and printed on February 16, 2004	
	74	Silicon Genetics Products: GeneSpring; The Industry Leader web page at http://www.silicongenetics.com/cgi/SiG.cgi/Products/GeneSpring/index.smf as available via the internet and printed on November 2, 2003	
	75	The MathWorks, web page at http://www.mathworks.com/company/contact.shtml as available via the internet and printed on February 16, 2004	

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